Anti-Mucin 5AC Antibody (AMCA)

Product Number: AC12-0333-01

Overview

Host Species: Mouse

Clonality: Monoclonal (SPM297)

Purity: Antibody is purified from bioreactor concentrate by Protein A/G. The antibody is then conjugated to AMCA (Aminomethylcoumarin Acetate) a blue fluorescent dye.

Isotype: IgG1, kappa

Conjugate: AMCA

Immunogen Type: Anti-mucin 5AC antibody (AMCA) was raised against M1 mucin preparation from the fluid of an ovarian mucinous cyst belonging to an O Le(a-b) patient.

Physical Characteristics

Amount: 0.05 mg

Concentration: 1 mg/ml

Volume: 0.05 ml

Buffer: Antibody (AMCA) is purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS at 1.0mg/ml.

Storage: AMCA conjugated antibody can be stored at 4°C for up to 18 months. For longer storage the conjugate can be stored at -20°C after adding 50% glycerol. AMCA conjugated antibodies should always be stored in the dark.

Specificity

Species Reactivity: Human, Monkey, Rabbit, Cat, Mouse, Rat, Pig, Hedgehog, Chicken

Negative Species Reactivity: Cow

Specificity: This MAb recognizes the peptide core of gastric mucin M1 (>1,000kDa) (recently identified as Mucin 5AC). Its epitope is destroyed by beta-mercaptoethanol and proteases but not by periodate treatment. Antibody to gastric mucin M1 reacts with the gastric epithelium of normal human gastrointestinal tract as well as with the precancerous and cancerous colon but not with normal adult colon. It also reacts with fetal colonic mucosa. Resurgence of gastric mucin reactivity during colonic carcinogenesis is due to re-expression of the peptide core of gastric (or fetal colonic) mucins.

Target Information

Accession Number(s): Swissprot: P98088 (Human)

Gene ID Number(s): 4586 (Human); 17833 (Mouse); 682837 (Rat)

Alternative Names: Apomucin; Gastric mucin; Major Airway Glycoprotein; MUC 5; MUC5; MUC5AC; Mucin 5 subtype AC tracheobronchial; Mucin 5 Subtypes A And C; Mucin 5 subtypes A and C tracheobronchial/gastric; Mucin 5AC oligomeric mucus/gel forming; TBM; Tracheobronchial Mucin

Application Details

Tested Applications: ELISA, WB, IHC, ICC, IF, IP, FC

ELISA: For coating an ELISA plate, order antibody without BSA.

Western Blot: Recommended starting concentration for western blot is 0.5-1ug/ml.

Immunocytochemistry: Recommended starting concentration for immunocytochemistry is 0.5-1ug/ml for 30 minutes at RT (staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes).
**Immunofluorescence:** Recommended starting concentration for immunofluorescence is 1-2ug/ml.

**Flow Cytometry:** Recommended starting concentration for flow cytometry is 0.5-1ug/million cells.

**Immunoprecipitation:** Recommended starting concentration for immunoprecipitation is 1-2ug/500ug protein lysate.